

Co-administration of Flu and COVID-19 Vaccines to Enhance Immunizations

April 27, 2022

AIRA 2022 National Meeting

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Division of Immunization



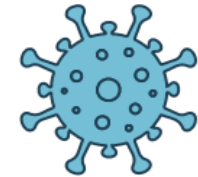
BACKGROUND

Additional COVID-19 recommendations - An opportunity to administer flu vaccines at the same visit

Flu vaccine

- Recommended for everyone aged > 6 months every season
- Some children aged 6 months through 8 years are recommended two doses

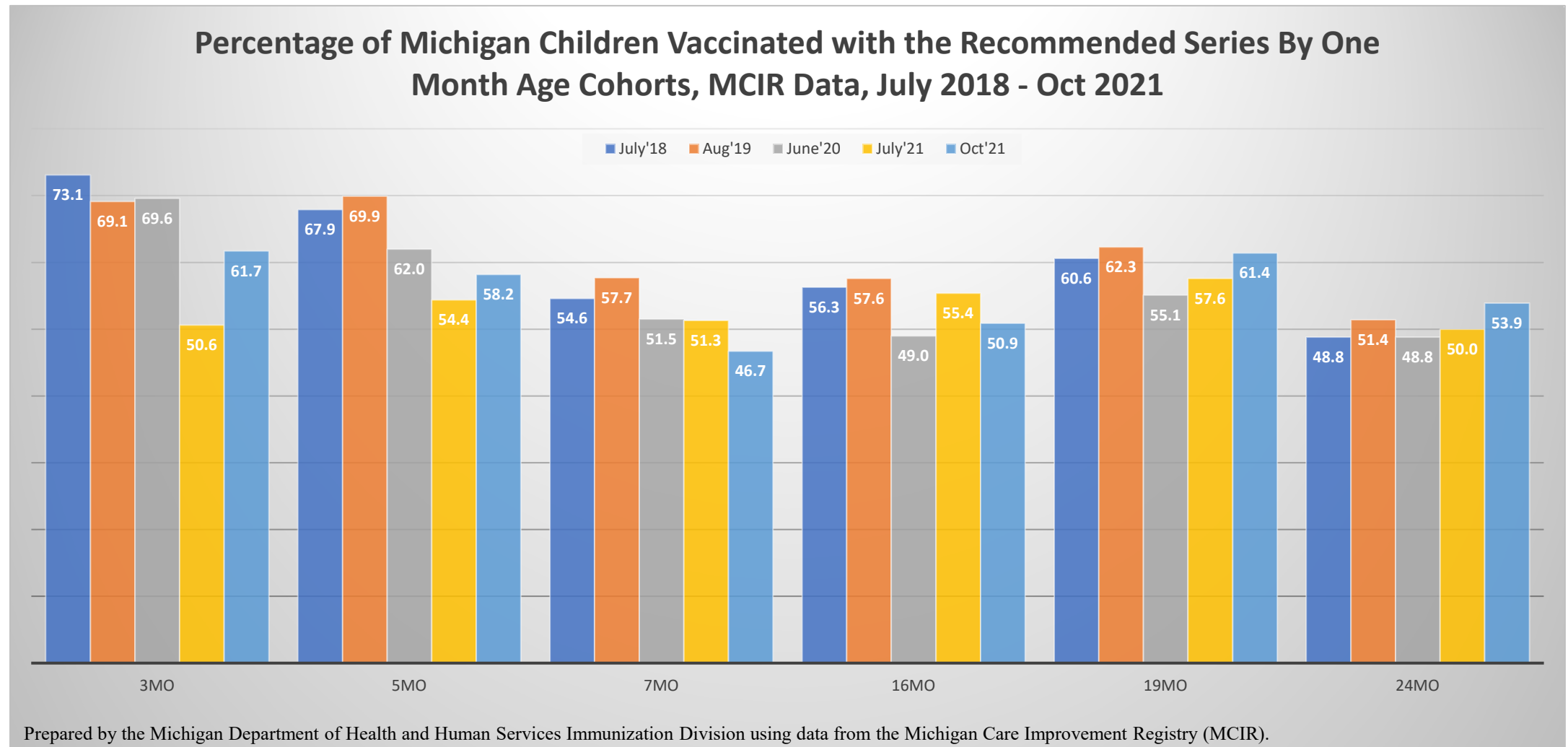
COVID-19 Vaccination Schedule*



Vaccine	0 month	1 month	2 month	3 month	4 month	5 month	6 month	7 month	8 month	9 month	10 month	11 month
Pfizer-BioNTech (ages 5-11 years)	1st Dose	2nd Dose (3 weeks after 1 st dose)										
Pfizer-BioNTech (ages 12 years and older)	1st Dose	2nd Dose¹ (3-8 weeks after 1 st dose)					Booster Dose² (at least 5 months after 2 nd dose)				2nd Booster Dose³ (See footnote)	
Moderna (ages 18 years and older)	1st Dose	2nd Dose¹ (4-8 weeks after 1 st dose)					Booster Dose² (at least 5 months after 2 nd dose)				2nd Booster Dose³ (See footnote)	
Janssen (ages 18 years and older)	1st Dose		Booster Dose² (at least 2 months after 1 st dose)				2nd Booster Dose³ (See footnote)					

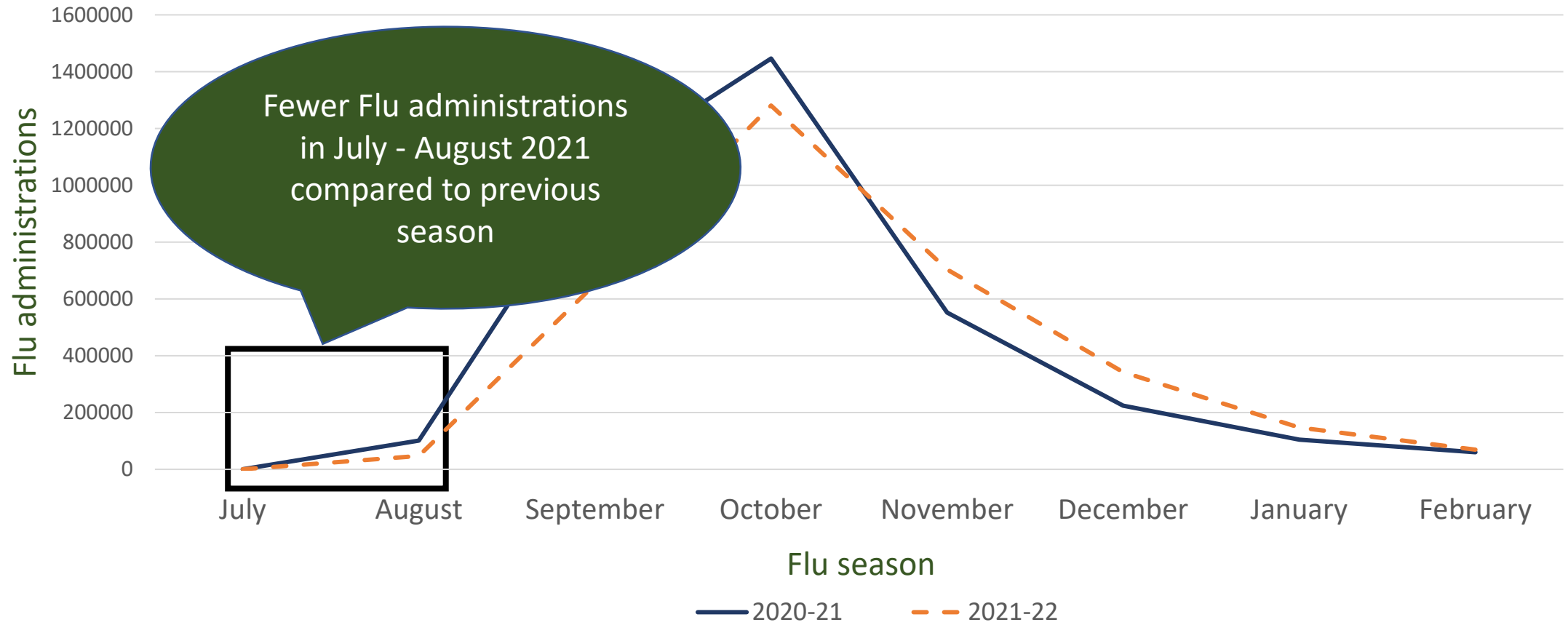
Note: Timeline is approximate. Intervals of 3 months or fewer are converted into weeks per the formula "1 month = 4 weeks." Intervals of 4 months or more are converted into calendar months.

COVID-19 Pandemic followed by decrease in routine immunizations



Why co-administer flu and COVID-19 vaccines?

[Influenza - Flu Vaccination Dashboard \(michigan.gov\)](https://michigan.gov/flu)



Can we co-administer flu and COVID-19 vaccines?

THE LANCET
Respiratory Medicine

ARTICLES | VOLUME 10, ISSUE 2, P167-179, FEBRUARY 01, 2022

Safety, immunogenicity, and efficacy of a COVID-19 vaccine (NVX-CoV2373) co-administered with seasonal influenza vaccines: an exploratory substudy of a randomised, observer-blinded, placebo-controlled, phase 3 trial

Seth Toback, MD • Eva Galiza, MBBS • Catherine Cosgrove, PhD • James Galloway, PhD • Anna L Goodman, DPhil • Pauline A Swift, PhD • et al. [Show all authors](#) • [Show footnotes](#)

Published: November 17, 2021 • DOI: [https://doi.org/10.1016/S2213-2600\(21\)00409-4](https://doi.org/10.1016/S2213-2600(21)00409-4) • [Check for updates](#)

A study established the safety and efficacy of Flu and COVID-19 vaccines when co-administered!

CDC recommends co-administration of Flu and COVID-19 vaccines – Aug 27, 2021!

 Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People™

[A-Z Index](#)

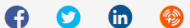
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Morbidity and Mortality Weekly Report (MMWR)

CDC



Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices, United States, 2021–22 Influenza Season

Recommendations and Reports / August 27, 2021 / 70(5);1–28

Lisa A. Grohskopf, MD¹; Elif Alyanak, MPH^{1,2}; Jill M. Ferdinands, PhD¹; Karen R. Broder, MD³; Lenée H. Blanton, MPH¹; H. Keipp Talbot, MD⁴; Alicia M. Fry, MD¹ ([View author affiliations](#))

MDHHS encourages providers to co-administer!

- Following CDC guidance, MDHHS communicated to all Michigan providers to co-administer Flu and COVID-19 vaccines when feasible
- Pharmacies (the top provider of COVID-19 vaccines in MI) were especially encouraged!
- Information regarding co-administrations disseminated via:
 - Weekly provider briefs
 - Noontime knowledge presentations
 - Yearly flu webinar – 1st Sept 2021
 - Responding to questions



TEST YOUR FLU I.Q.
TRUE OR FALSE

The flu vaccine
can be taken at the
same time as the
COVID-19 vaccine.

MDHHS
Michigan Department of Health & Human Services

*COVID-19 is here,
and so is the flu.*

Vaccinate Together



Learn more at
Michigan.gov/COVIDVaccine

**Vaccination
is your best
protection
against the flu
and COVID-19.**

With COVID-19 still spreading, it is more important than ever to protect yourself from vaccine-preventable diseases like the flu and COVID-19.



**You can get
a COVID-19
vaccine and
a flu vaccine
at the same
time.**



**Vaccinating
at the same
visit for flu
and COVID-19
protects loved
ones from both
deadly diseases.**



**Flu and
COVID-19 are
both especially
dangerous for
older people.**



Vaccination helps prevent infection, severe disease, hospitalization, and death from both the flu and COVID-19.

Ensure your loved ones are fully protected before the holidays.

METHODS

Data source

- Michigan's Immunization Information System (IIS) – Michigan Care Improvement Registry (MCIR)
 - Mandatory childhood vaccine reporting (birth through 18 years)
 - Became a lifespan registry in 2006 with addition of adult records
- Immunization records in MCIR escalated following the COVID-19 pandemic
 - 8.3 million doses in 2020 to 21.6 million in 2021
 - Dramatic increase in adult records

mcir.org | [Improving Healthcare in Michigan](#)

Data analysis

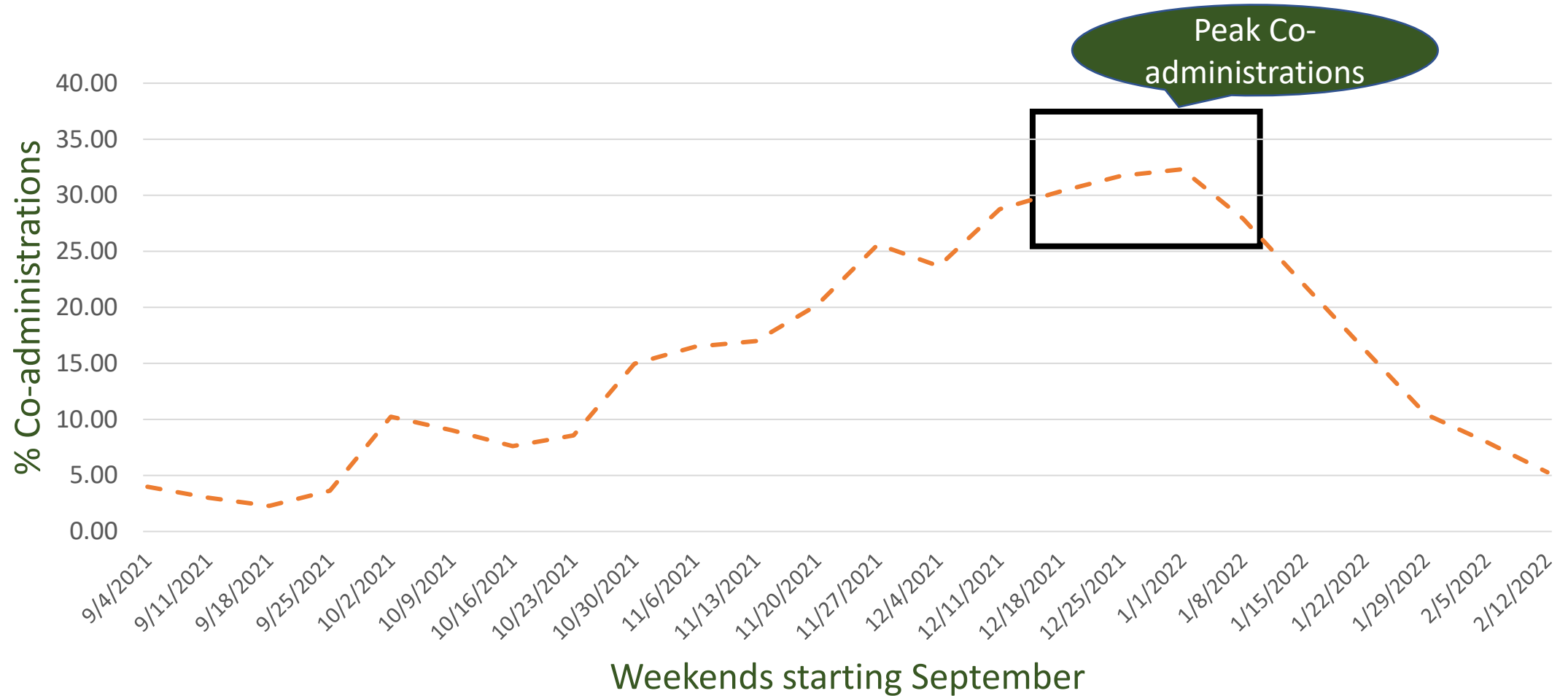
- “Co-administrations” included Michigan residents who received a flu and COVID-19 vaccine :
 - On the same day
 - +/- 1 day from each other
- % of total flu vaccines that were co-administered with a COVID-19 vaccine (Sep 1, 2021, to Feb 12, 2022) were assessed
 - Trends over time during the 2021-22 flu season
- Co-administrations stratified by age, gender, and type of provider
- County level co-administrations were mapped using GIS software

RESULTS

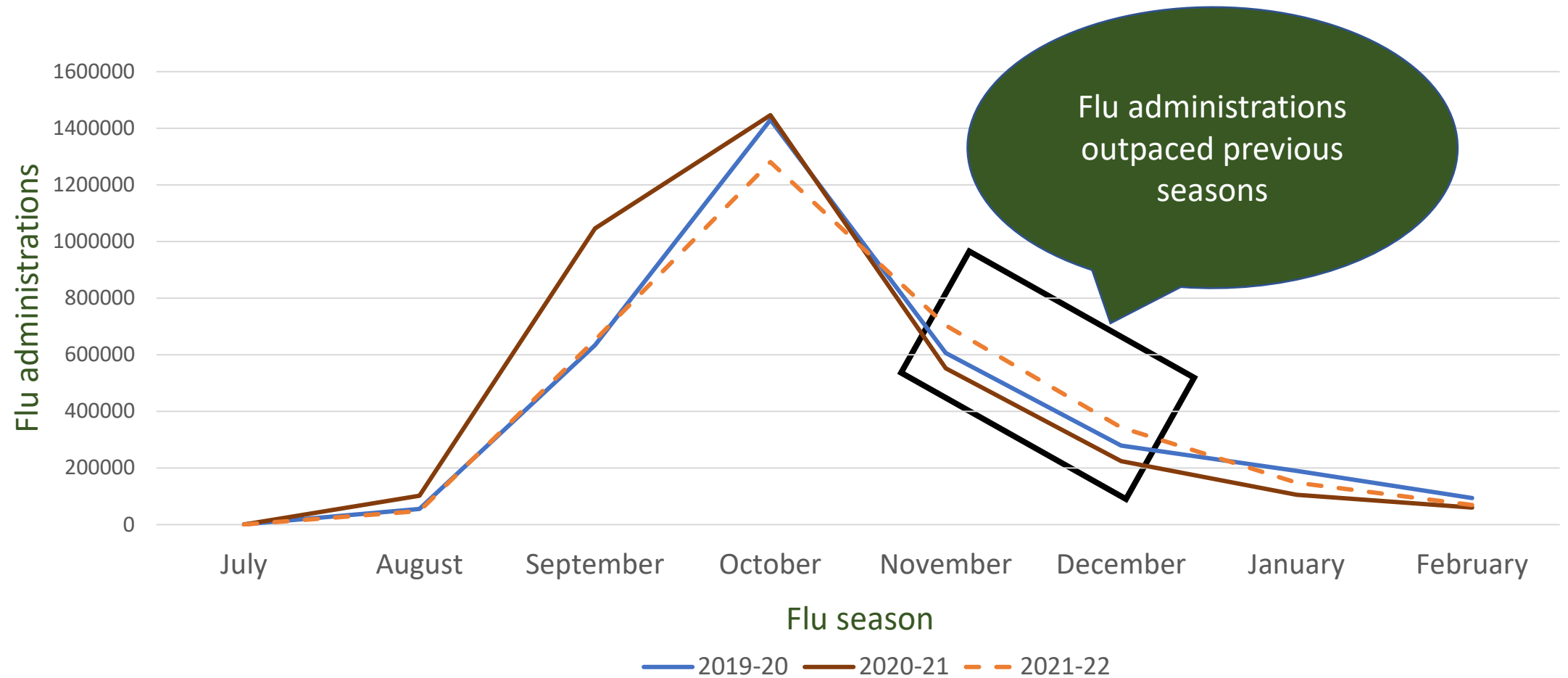
Key results

- 13.4% (413,101) co-administrations out of a total of 3,075,658 flu vaccinations in Michigan
- Weekly co-administration rates peaked in December 2021 (32.3%) followed by a sharp decline in February 2022 (5.3%).
- During peak co-administrations (Nov 2021 - Jan 2022), the flu vaccine administration outpaced vaccinations at the same time in the previous two years

% of flu vaccines that were co-administered with a COVID-19 vaccine?



Higher flu administrations during peak co-administrations!

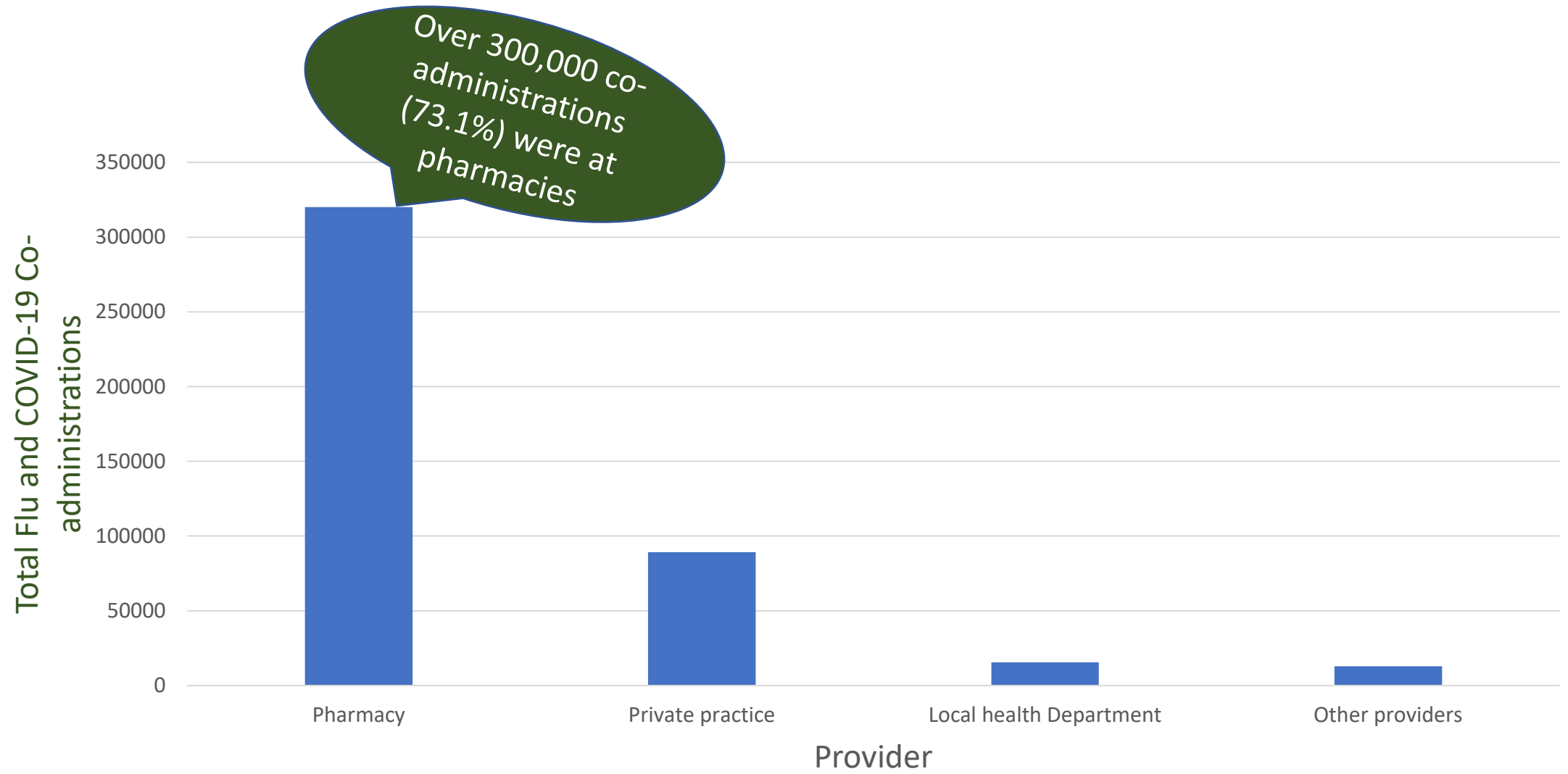


Co-administrations by sex and age group

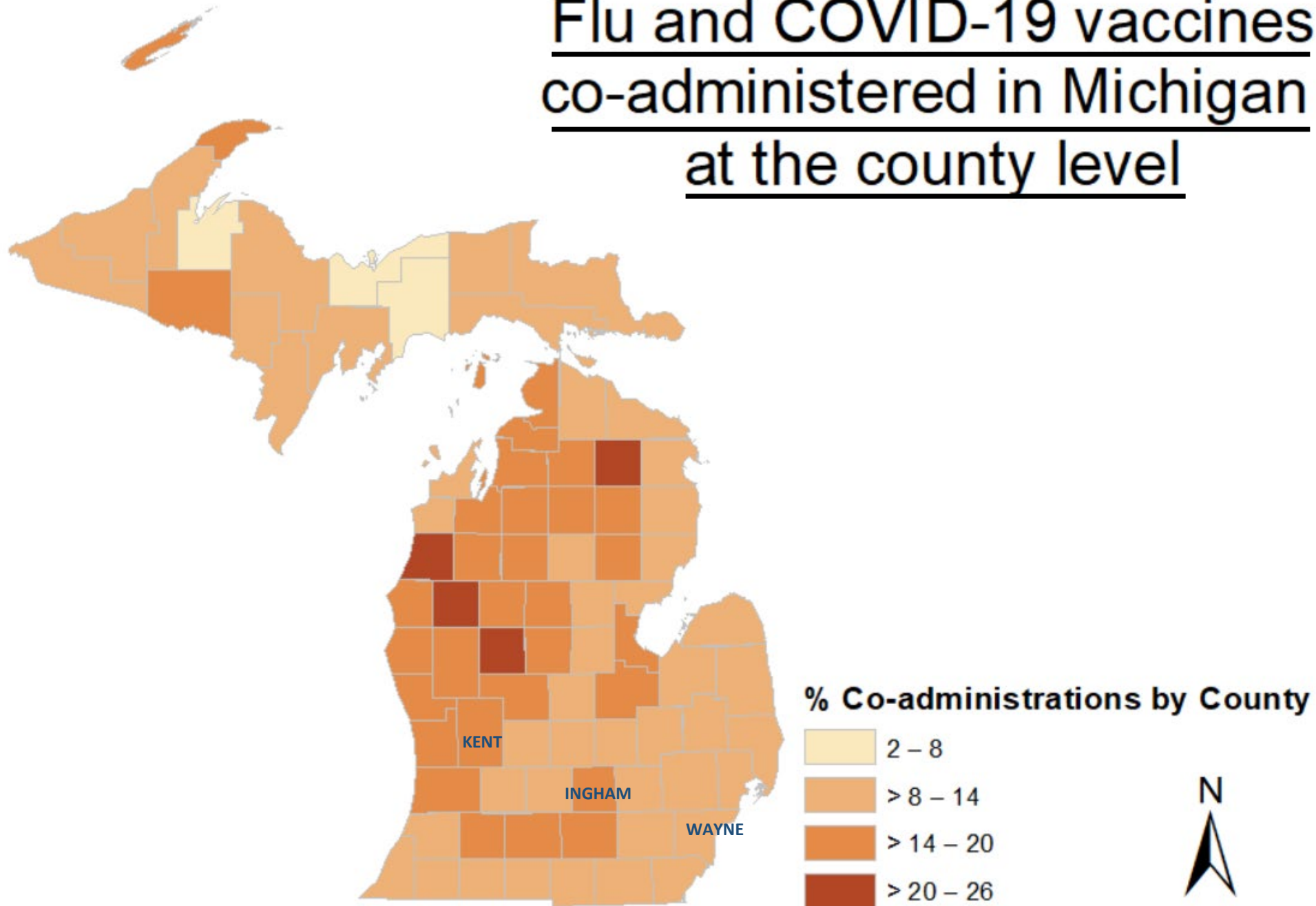
Sex	Flu-COVID Co-administrations (%)
Male	210,044 (48.0%)
Female	227,417 (52.0%)

Age group	Flu-COVID Co-administrations (%)
5 – 11 years	283 (0.1%)
12 – 17 years	11,144 (2.5%)
18 – 49 years	161,949 (37.0%)
50 – 64 years	114,210 (26.1%)
65 years and above	150,025 (34.3%)

Co-administrations by Healthcare provider



Flu and COVID-19 vaccines co-administered in Michigan at the county level



CONCLUSION

Conclusions

- State health departments should utilize their Immunization Registries to actively monitor trends in co-administration of vaccines which can guide data-driven policies to enhance vaccination coverages
- Educational outreach to pharmacies, other health care providers, and the general public to co-administer flu and COVID vaccines can be an effective strategy to enhance immunizations.
- In an environment with rapid changes in vaccine recommendations (including additional doses of COVID-19 vaccine), co-administration of other vaccines with Flu vaccine presents a unique opportunity to improve vaccination coverage.

Next steps...

- Differences in Co-administrations by
 - Race / ethnicity
 - COVID-19 dose type (Primary series vs. booster dose)
 - Rural vs. urban counties
- Co-administration of other ACIP recommended vaccines with Flu / COVID-19 vaccines?

Project Team



Division of Immunization

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- Hannah Forsythe, MCIR Epidemiologist
- Abhinav Nalla, Data Sharing Analyst
- Terri Adams, Director
- Ryan Malosh, Epidemiology Section Manager

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